

YKH
5/25/06

13. (Currently Amended) The method of claim 11, wherein the ~~free layer is disposed adjacent the non-magnetic spacer layer and opposite the gap layer such that~~ the magnetoresistive sensor is ~~forms~~ a bottom spin valve sensor.

14-17. (Canceled)

18. (Currently Amended) The method of claim 11, wherein the ~~magnetoresistive~~ magnetoresistive sensor is provided in a magnetic media read head.

Original
19. (~~Withdrawn~~) The method of claim 11, wherein providing the at least one stabilizer depression includes forming the at least one stabilizer depression in the one sensor stack layer by milling the at least one stabilizer depression in the one sensor stack layer, and wherein providing the plurality of layers includes depositing other sensor stack layers of the plurality of sensor stack layers on the milled one sensor stack layer.

Original
20. (~~Withdrawn~~) The method of claim 19, wherein providing the at least one stabilizer depression includes milling the one or more stabilizer depressions to have a depth such that after deposition of the other sensor stack layers on the milled one sensor stack layer, the magnetic field of the free layer of the magnetoresistive sensor experiences restorative forces due to the at least one stabilizer depression.

21. (Currently Amended) The magnetoresistive sensor of claim 1, wherein the ~~free layer is disposed adjacent the spacer layer and opposite the gap layer such that~~ the magnetoresistive sensor is ~~forms~~ a bottom spin valve sensor.

(Cancelled)
22. (New) The magnetoresistive sensor of claim 1 wherein the at least one stabilizer depression is oriented parallel to a long axis of the magnetoresistive sensor and perpendicular to a magnetic media if the magnetic media is read by the magnetoresistive sensor.